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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,971	12/15/2003	Richard F. O'Day	3123-551 (16420-02103)	4281

26861 7590 01/24/2007

SEAGATE TECHNOLOGY LLC  
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EXAMINER
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KIM, PAUL D

ART UNIT	PAPER NUMBER
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3729

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/24/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

**Office Action Summary**

Application No.

10/735,971

Applicant(s)

O'DAY, RICHARD F.

Examiner

Paul D. Kim

Art Unit

3729

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 03 November 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-39 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 2, 4, 10, 14, 16-18, 22-25 and 27-30 is/are rejected.
- 7) ☒ Claim(s) 3, 5-9, 11-13, 15, 19-21, 26 and 31-39 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

This office action is a response to the amendment filed on 11/03/2006.

#### ***Examiner's Comment***

1. The petition was filed on 11/03/2006. Upon further consideration, the petition filed on Nov. 3, 2006 has been treated as request for reconsideration.

#### ***Response to the Restriction Requirement***

2. Based upon the petition, examiner hereby withdraws the restriction requirement mailed in 4/24/2006.

#### ***Claim Objections***

3. Claims 2-21 and 23-38 are objected to because of the following informalities:  
Before the phrase "method" as recited in line 1 of claims 2-21 and 23-38, the phrase "A" is needed to be changed to --The--.  
Appropriate correction is required.

#### ***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the

Art Unit: 3729

applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1, 2, 4, 10, 14, 16-18, 22-25 and 27-30 are rejected under 35

U.S.C. 102(e) as being anticipated by Bae et al. (US PAT. 6,532,136).

Bae et al. teach a process of arrangement a voice coil motor magnet in a disk drive comprising steps of: installing a lower voice coil motor magnet (20b) as shown in Fig. 2; installing a head positioning assembly (6), wherein a coil (10) is interconnected with the head positioning assembly as shown in Fig. 2; suspending (equivalent with an arrangement, as per claim 30) an upper voice coil motor magnet (20a) above the lower voice coil motor magnet (20b) as shown in Figs. 3 and 4; magnetically aligning the upper voice coil motor magnet with the and lower voice coil motor magnet (as per claims 23 and 24) during the suspending process as shown in Fig. 4; and supporting (or attaching) the upper voice coil motor magnet above the lower voice coil motor magnet after the magnetically aligning process as shown in Fig. 3 (see also col. 4, line 45 to col. 5, line 66).

As per claims 2 and 28 the upper voice coil motor magnet moves within a reference plane such as up and down or left or right as shown in Fig. 4.

As per claims 4, 10 and 22 the upper and lower magnets are maintained in parallel relation during the magnetically aligning process as shown in Fig. 4.

As per claims 14, 16, 25 and 27 a verticality of magnetic filed lines extends between the upper voice coil motor magnet and the lower voice coil motor magnet

Art Unit: 3729

As per claims 17, 18 and 29 the movement of the upper magnet is limited and acted only magnetic forces as shown in Fig. 4 within a plan parallel with the lower voice coil motor magnet.

### ***Allowable Subject Matter***

6. Claims 3, 5-9, 11-13, 15, 19-21, 26 and 31-39 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### ***Response to Arguments***

7. Applicant's arguments with respect to claims 1-39 have been considered but are moot in view of the new ground(s) of rejection.

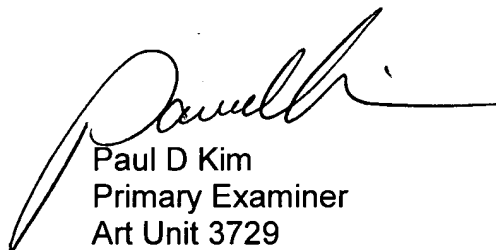
### ***Conclusion***

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul D. Kim whose telephone number is 571-272-4565. The examiner can normally be reached on Monday-Thursday between 6:00 AM to 2:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3729

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Paul D Kim  
Primary Examiner  
Art Unit 3729